

WHAT IS CLAIMED IS:

1. An ink jet recording apparatus to which an ink cartridge provided with an ink storing member for storing ink to be used for recording and a waste ink
5 storing member for storing waste ink discharged from a recording head is detachably attached to perform recording by ejecting ink supplied from the ink storing member of the attached ink cartridge out of the recording head, comprising:

10 recovery means for causing ink to be discharged from said recording head for a purpose other than recording;

a waste ink path that allows the waste ink discharged from the recording head by said recovery
15 means to be stored in the waste ink storing member of said attached ink cartridge;

determination means for determining a remaining amount of ink in said ink storing member and a remaining storable amount of waste ink that can be
20 stored in said waste ink storing member; and

changing means for changing display on state of use of said ink cartridge based on the determined remaining amount of ink and remaining storable amount of waste ink.

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2. An ink jet recording apparatus according to claim 1, wherein said changing means changes which of

said remaining amount of ink and said storable amount of waste ink is to be displayed.

3. An ink jet recording apparatus according to
5 claim 2, wherein said changing means changes the
display based on a percentage of the remaining amount
of ink relative to an amount of ink storable in said
ink storing member and a percentage of the storable
amount of waste ink relative to a full amount of
10 waste ink that can be stored in said waste ink
storing member so as to display the amount
corresponding to the relatively smaller one of those
percentages.

15 4. An ink jet recording apparatus according to
claim 1 further comprising display means for
performing display on said state of use.

20 5. An ink jet recording apparatus according to
claim 1, wherein the display on the state of use of
said ink cartridge is performed by outputting
information of a content to be displayed to an
externally connected host apparatus.

25 6. An ink jet recording apparatus according to
claim 1, wherein said changing means changes whether
display for prompting replacement of said ink

cartridge is performed based on the remaining amount of ink or based on the storable amount of waste ink.

7. An ink jet recording apparatus according to
5 claim 1, wherein a plurality of ink cartridges
respectively corresponding to a plurality of inks of
different colors can be attached to the apparatus,
and said waste ink path supplies the plurality of
inks of different colors to a waste ink storing
10 member of a predetermined ink cartridge common to
them.

8. A control method for an ink jet apparatus
for performing recording by ejecting ink from a
15 recording head, provided with recovery means for
causing ink to be discharged from said recording head
for a purpose other than recording, and to which an
ink cartridge provided with an ink storing member for
storing ink to be used for recording and a waste ink
20 storing member for storing waste ink discharged from
the recording head is detachably attached,
comprising:

a determination step of determining a remaining
amount of ink in said ink storing member and a
25 remaining storable amount of waste ink that can be
stored in said waste ink storing member; and

a changing step of changing display on state of

use of said ink cartridge based on the determined remaining amount of ink and remaining storable amount of waste ink.

5 9. A control method according to claim 8, wherein in said changing step, which of said remaining amount of ink and said storable amount of waste ink is to be displayed is changed.

10 10. A control method according to claim 9, wherein in said changing step the display is changed based on the percentage of the remaining amount of ink relative to an amount of ink storable in said ink storing member and the percentage of the storable
15 amount of waste ink relative to a full amount of waste ink that can be stored in said waste ink storing member so that the amount corresponding to the relatively smaller one of those percentages is displayed.

20 11. An ink jet recording apparatus to which a first cartridge accommodating an ink storing member for storing ink and a second cartridge accommodating an ink storing member for storing ink to be used for
25 recording and a waste ink storing member for storing waste ink discharged by a recovery process are detachably attached to perform recording by ejecting

ink supplied from the ink storing members of the attached ink cartridges out of a recording head, comprising:

remaining amount detection means for detecting a
5 remaining amount of ink in the ink storing member of each of said first cartridge and said second cartridge;

waste ink amount detection means for detecting an amount of waste ink in said waste ink storing
10 member;

means for displaying state of use of said first and said second cartridges; and

control means for performing a control in such a way that the remaining amount of ink in the ink
15 storing member of said first cartridge is displayed as the state of use of said first cartridge and the smaller one of a percentage of the remaining amount of ink in said second cartridge and an amount of waste ink that can be received in said waste ink
20 storing member is displayed as the state of use of said second cartridge.

12. An ink jet recording apparatus to which a first cartridge accommodating an ink storing member
25 for storing ink and a second cartridge accommodating an ink storing member for storing ink to be used for recording and a waste ink storing member for storing

waste ink discharged by a recovery process are detachably attached to perform recording by ejecting ink supplied from the ink storing members of the attached ink cartridges out of a recording head, comprising:

remaining amount detection means for detecting a remaining amount of ink in the ink storing member of each of said first cartridge and said second cartridge;

10 waste ink amount detection means for detecting an amount of waste ink in said waste ink storing member;

means for displaying time for replacement of said first and said second cartridges; and

15 control means for performing a control in such a way that the time for replacement of said first cartridge is displayed when an amount of ink remaining in the ink storing member of said first cartridge becomes a predetermined amount and the time
20 for replacement of said second cartridge is displayed when an amount of ink remaining in the ink storing member of said second cartridge becomes smaller than a certain amount or when an amount of waste ink that can be received in said waste ink storing member
25 becomes equal to or smaller than a certain amount.